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(REV 11-2000) TRANSMITTAL LETTER TO	72.054						
DESIGNATED/ELECTED	U.S. APPLICATION NO. (If known see 37 CFR 1 5)						
CONCERNING A FILING	10/019889						
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
PCT/EP00/05263	7 June 2000	29 June 1999					
TITLE OF INVENTION Type Plate Con							
APPLICANT(S) FOR DO/EO/US Wacker-W	Verke GmbH & Co. KG,						
Applicant herewith submits to the United States I		lowing items and other information:					
1. X This is a FIRST submission of items of	1. X This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.						
	2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.						
3. This is an express request to begin nat items (5), (6), (9) and (21) indicated b	tional examination procedures (35 U.S.C. 371 (pelow.	(1)). The submission must include					
4. The US has been elected by the expira	ation of 19 months from the priority date (Artic	ele 31).					
5. X A copy of the International Applic	cation as filed (35 U.S.C. 371 (c)(2))						
a. Is attached hereto (re	equired only if not communicated by the In	nternational Bureau).					
L L L L L L L L L L L L L L L L L L L	ated by the International Bureau.						
	e application was filed in the United States						
	f the International Application as filed (35	U.S.C. 371 (c)(2)).					
a. X is attached hereto.							
	submitted under 35 U.S.C. 154(d)(4).						
	International Application under PCT Artic						
<u> </u>	required only if not communicated by the	International Bureau).					
b. have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amendments has NOT expired.							
	and will not be made.	2 Article 10 (25 H C C 271(a)(2))					
· —							
9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern document(s) or information included:							
11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
12. X An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included							
13. X A FIRST preliminary amendment.							
14. A SECOND or SUBSEQUENT preliminary amendment.							
15. A substitute specification.							
16. A change of power of attorney an							
		Rule 13ter.2 and 35 U.S.C. 1.821 – 1.825.					
<u> </u>	nternational application under 35 U.S.C. 1.						
19. A second copy of the English lang	guage translation of the international appli	ication under 35 U.S.C. 154(d)(4).					
20. Other items or information:							

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21. X The following fees are submitted:					CALCULATIONS	S PTO USE ONLY
1	BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):					
	Neither international preliminary examination fee (37 CFR 1.482)					
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO				\$1040.00		
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$890.00						
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445 (a)(2)) paid to USPTO						
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_	for furnishing the oath or st claimed priority date (3		20	30	\$ 0.00	
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Total claims	7 - 20 =	0	X	\$18.00	\$ 0.00	
Independent claims	1 - 3 =	0	X	\$84.00	\$ 0.00	
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SUBTOTAL =					\$ 890.00	
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	nclosed assignment (37 Coropriate cover sheet cover sheet cover sheet (37 Coropriate cover sheet cover sh	FR 1.21(h)). The assign	ment must b	е	\$ 40.00	
		TOTAL FEES			\$ 930.00	
					Amount to be: refunded	\$
					charged	\$
a. X A check in	the amount of \$ 930.00 to	cover the above fees is	enclosed.			
b. Please charge my Deposit Account No. 50-1170 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.						above fees.
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1170 A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
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10/019889 531 Recidrum. 28 DEC 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

National Phase of PCT/EP00/05263

International Filing Date:

7 June 2000

Inventors:

Peter JORDAN (deceased), Frank MEYER-HESSING, Michael STEFFEN,

Jean BORUN, and Jürgen RÖMING

Title: Machine Having a Type Plate Comprising a Storage Device

Priority:

German Application No. 199 29 766.5; filed 29 June 1999 (29.06.99)

PRELIMINARY AMENDMENT

DO/EO/US
Director of the U.S. Patent
and Trademark Office
Washington, D.C. 20231

Sir:

This Preliminary Amendment is directed to a new U.S. application as identified above. Please enter this Preliminary Amendment prior to calculating the fees.

Please substitute the attached pages 1, 2, 3, 3a, 5, and 6 for pages 1, 2, 3, 5, and 6 of the specification as originally filed. Please substitute the attached pages 7 and 8 bearing claims 1-7 for original page 7-8 bearing claims 1-8 as originally filed. The new pages incorporate revisions to the international PCT application which were modified under Article 34.

Please amend the application as amended as specified above, as follows:

IN THE SPECIFICATION (As Amended to Incorporate the Article 34 Amendments):

Substitute page 1, after the title, insert the heading --BACKGROUND OF THE INVENTION--; and the subheading --1. Field of the Invention--.

Substitute page 1, between lines 8 and 9, insert the subheading --2. Description of the Related Art--.

Substitute page 2, between lines 33 and 34, insert the heading --OBJECTS AND SUMMARY OF THE INVENTION--.

Page 4, between lines 14 and 15, insert the heading --BRIEF DESCRIPTION OF THE DRAWING--.

Page 4, between lines 23 and 24, insert the heading --DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--.

IN THE CLAIMS (As Amended to Incorporate the Article 34 Amendments):

Before claim 1, between lines 2 and 3, insert -- We claim:--

Please substitute amended claims 1-7 with twice amended claims 1-7 as shown below in "clean sheet" format. A marked-up version of the amended claims is attached.

- 1. (Twice Amended) A machine having a type plate as a carrier for written and/or graphical information, which at the same time is combined with an electronic storage device, wherein the storage device has a separate input for data transmission signals generated in the machine, and an output and, if appropriate, a second input for the non-contact or wire-free output and, if appropriate, input of data.
- 2. (Twice Amended) The machine as claimed in claim 1, wherein the storage device does not have its own power supply.
- 3. (Twice Amended) The machine as claimed in claim 2, wherein the storage device is suitable for receiving and operating power required to read into and out of the memory, as well as that required for storage, from devices which are provided separately from the type plate.
- 4. (Twice Amended) The machine as claimed in claim 3, wherein the storage device is suitable for receiving the operating power without mechanical coupling, in a non-contact or wire-free manner.

(Twice Amended) The machine as claimed in claim 3, wherein the storage device is 5.

suitable for receiving the operating power from the devices for reading data into and/or out of

the storage device during their operation.

(Twice Amended) The machine as claimed in claim 1, wherein there is a connection 6.

between a separate input and a transmitter/receiver of the output and, if appropriate, the

second input.

(Twice Amended) The machine as claimed in claim 2, wherein the type plate within 7.

the machine is assigned a transmitter for data and operating power in a physical position

permitting the transmission of said power to the storage device.

ABSTRACT OF THE DISCLOSURE:

Please add page 9 as the Abstract of the Disclosure.

REMARKS

This application has been amended to insert headings in the specification, to eliminate

multiple dependencies in the claims and to otherwise place the claims into better

conformance with preferred USPTO practice without narrowing the claims, to incorporate

Article 34 Amendments from the corresponding PCT application, and to add an Abstract.

Entry of the amendments and early consideration and allowance are respectfully requested.

No fees are believed to be payable with the submission of this amendment. However,

the Director is authorized to charge any fees associated with this or any other communication,

or credit any overpayment, to Deposit Account No. 50-1170.

Respectfully submitted,

Timothy E. Newholm

Registration No. 34,400

Dated: December 28, 2001

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Facsimile: (414) 225-9753

10/019369 IPCT/F: 28 DEC 2001

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Amended Claims

Patent claims

We claim:

- 1. (Twice Amended) A machine having a type plate (10) as a carrier for written and/or graphical information (11, 13), which at the same time is combined with an electronic storage device (12), characterized in that wherein the storage device (12) has a separate input (14) for data transmission signals generated in the machine, and an output and, if appropriate, a second input (30) for the non-contact or wire-free output and, if appropriate, input of data.
- 2. (Twice Amended) The machine as claimed in claim 1, characterized in that wherein the storage device (12)-does not have its own power supply.
- 3. (Twice Amended) The machine as claimed in claim 2, characterized in that wherein the storage device (12) is suitable for receiving and operating power required to read into and out of the memory, as well as that required for storage, from devices (20, 22) which are provided separately from the type plate.
- 4. (Twice Amended) The machine as claimed in claim 3, <u>characterized in that wherein</u> the storage device (12)-is suitable for receiving the operating power without mechanical coupling, in a non-contact or wire-free manner.
- 5. (Twice Amended) The machine as claimed in either of claims 3 and 4, characterized in that wherein the storage device (12) is suitable for receiving the operating power from the devices (20, 22) for reading data into and/or out of the storage device during their operation.
- 6. (Twice Amended) The machine as claimed in one of the claims 1 to 5, characterized in that wherein there is a connection (32, 34) between a separate input (14) and a transmitter/receiver (28) of the output and, if appropriate, the second input (30).

7. (Twice Amended) The machine as claimed in claim 2, or one of the claims following it and based on claim 2, characterized in that wherein the type plate (10) within the machine is assigned a transmitter for data and operating power in a physical position permitting the transmission of said power to the storage device (12).

Machine having a type plate comprising a storage device 28 DEC 2001

The invention, according to the preamble of claim 1, relates to a machine having a type plate as a carrier for written and/or graphical information, which at the same time is combined with an electronic storage device.

Machines are provided by the manufacturer with a 10 permanently fixed type or rating plate, on which important information is noted, most often in addition designation of the manufacturer and, designation, appropriate, а type amongst information the date of manufacture, a machine number and relevant rating data, such as current consumption, output power or rotational speed. The data is most often applied to the type plate in an indestructible script, for example by embossing or engraving. code for the non-contact registration of the data by 20 means of laser scanners can also be provided.

It is also already known to provide machines with memories which, in the course of the use of the machine, store relevant operating or rating data, such as the running time, rotational speeds and loadings. These memories are connected mechanically to the power supply of the machine and, depending on the design configuration of the machine, are arranged at locations which respectively appear to be suitable.

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The data contained in such memories supplements the information on the rating plates in an advantageous way, since the information on the rating plate describes the condition of the machine at the time of its fabrication, while the stored data is suitable for supplying information about the operation of the machines after its fabrication, such as the running time, rotational speeds and loading.

Starting from the idea that it is precisely this additional information which accumulates during the operating time of the machine which proves to be particularly useful when a relatively large pool of machines has to be looked after and maintained, including, for example, companies which lease or lend machines, it was perceived as disadvantageous that there is no standard rule as to where such memories have to be arranged on the machine and how the data is to be read in and out, so that in each case specific knowledge and, if appropriate, aids are required in order to gain access to the data.

device without its own power supply, which has a separate input for data transmission signals generated in an apparatus and an input/output for the non-contact output and input of data with devices, the storage device being suitable for receiving the operating power required to read into and out of the memory, as well as that required for storage, without mechanical coupling, in a non-contacting manner, from the devices during operation.

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Furthermore, EP-A-0 754 406 discloses a transponder earmark for the electronic identification of animals, and FR-A-2 717 593 discloses a plate to be fitted to containers for both the visual and the electronic identification of containers, for example with regard to their content, their origin or their intended location.

The invention is based on the object of providing a relatively simple means to make it possible to configure machines which are provided with a device for the registration, storage and output of machine-based data in such a way that the operation of reading out

and, if appropriate, the operation of reading in is made significantly easier and can be carried out without specific, machine-based knowledge.

5 This object is achieved as specified in patent claim 1. According to this, the invention is characterized in that the storage device has a separate input for data transmission signals generated in the machine and an output and, if appropriate, a second input for the non-contact or wire-free output and, if appropriate, input of data.

Therefore, according to the invention, a type plate is connected functionally to a machine in such a way that data generated by the machine itself can be transmitted to the memory chip of the type plate during operation, from which it can be read out easily by using standardized means.

The flat, thin type plate of relatively small size can 20 easily be fitted at a location suitable for it to be read, and is generally also located at such a place, for which reason it is no trouble to use the memory chip and at any time to obtain information, for example about the condition of the machine or its incorporation 25 into an operational organizational structure, such as information about the operating time, the loading or compliance and/or speeds rotational maintenance intervals, or else the assignment of the machine to a specific operating area or site. This may be of particular importance to companies which lend or lease machines, it being possible for the reliability of the information to be ensured by means of suitable measures, known per se, for restricting access to the stored data. 35

The memory chip is preferably connected in such a way that it does not have its own power supply or energy

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store, instead that the memory chip is suitable for receiving the power required to read into and out of the memory appliances which are separate from the type plate. Such appliances can be transponders or other magnetic data transmission devices, which preferably operate in a non-contact or wire-free manner, in order to be able to encapsulate the transmitter or receiver completely with respect to the environment. The transmitters or receivers then have no contacts or lines leading to the outside, which is advantageous in particular when the machines are used in a rough environment, for example on building sites.

According to a particularly expedient refinement, the memory chip is suitable for receiving the operating power from the appliances for reading data into and/or out of the memory chip during their operation.

Depending on the request or requirement or depending on the equipment of the machine provided with the type plate, data can if necessary be input only from outside the machine by means of a suitable input appliance, or data can also be obtained within the machine by means of suitable signal transmitters and transmitted to the memory chip, for which purpose a transmitter for the power and data transmission can be arranged within the machine in a suitable physical associate with the type plate.

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A further advantageous embodiment consists in the memory chip having a separate input for data transmission signals generated in the machine and a second output and, if appropriate, input for the non-contact or wire-free output and, if appropriate, input of data.

The subject of the invention is also a machine comprising a type plate according to the invention, in which the type plate within the machine is assigned a transmitter for data and operating power in a physical position permitting the transmission of said power to the storage device.

The invention will be explained in more detail using an exemplary embodiment thereof illustrated in the drawing.

The drawing shows in schematic form a type plate 20 designed in accordance with the invention and its incorporation into a system or data input and output devices.

The type plate of the conventional type, often also referred to as a rating plate, is identified by 10 and has various areas 11 for the inscription, using the embossing or engraving process, for example, it also being possible for a bar code 13 to be applied. Integrated into this type plate is an electronic memory chip 12 which serves as a storage device, does not have its own power supply and is suitable for storing data. In order to input or output the data, devices or appliances are necessary which are suitable for supplying the necessary power to the memory chip 12 when they are being used.

In the example shown, the machine which bears the rating plate, but is itself not shown, is provided with

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signal transmitters which are suitable for converting relevant operating data into signals which can be transmitted to a data input 14 of the memory chip 12. For this purpose, the signals, represented symbolically by 16, are transmitted to a receiver 18 which is connected to the data input 14 which at the same time serves to supply power to the memory chip 12 during the transmission of data out of the machine. If appropriate, the receiver 18 for non-contact data and power transmission can also be replaced by a permanent line connection, that is to say by fixed wiring.

In order to read out the data stored in the memory chip 12, but also to read in data which cannot be obtained within the machine and have to be supplied from outside, for example data about the place of use of the machine or an existing rental agreement, or in order to read in all the data to be stored if the machine is not the provided with a generator orsignal compatible appliances can be used, for example in the form of a laptop 20 or an operating hours counter 20, each being provided with a transmitter/receiver 24 or which is suitable for transmitting data and in a non-contacting manner to a operating power transmitter/receiver 28 connected to a second data input and output 30 on the memory clip.

The memory chip 12 can be connected in such a way that 30 via the input of data arbitrary the only when transmitter/receiver 28 is possible predefined condition is satisfied, for example as the result of the input of a security code, in order to prevent data manipulation by unauthorized persons. 35 interrogation authorization can also Equally, provided.

As the line connections 32 and 34 symbolize, there may also be a connection between the data input 14 and the transmitter/receiver 28.

Patent Claims

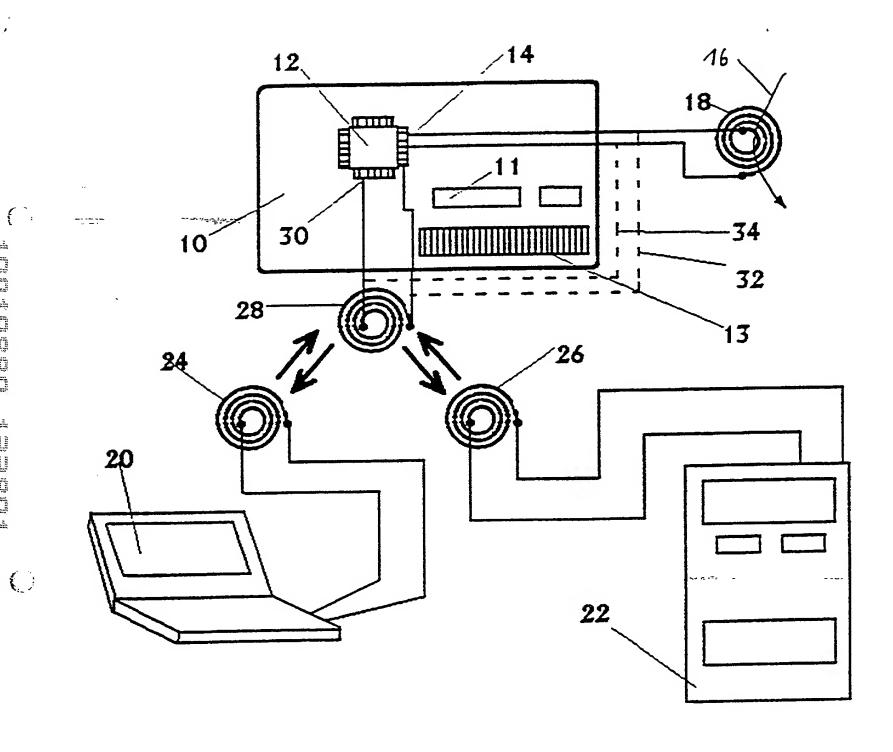
- 1. A machine having a type plate (10) as a carrier for written and/or graphical information (11, 13), which at the same time is combined with an electronic storage device (12), characterized in that the storage device (12) has a separate input (14) for data transmission signals generated in the machine, and an output and, if appropriate, a second input (30) for the non-contact or wire-free output and, if appropriate, input of data.
- 2. The machine as claimed in claim 1, characterized in that the storage device (12) does not have its own power supply.
- 3. The machine as claimed in claim 2, characterized in that the storage device (12) is suitable for receiving and operating power required to read into and out of the memory, as well as that required for storage, from devices (20, 22) which are provided separately from the type plate.
- 4. The machine as claimed in claim 3, characterized in that the storage device (12) is suitable for receiving the operating power without mechanical coupling, in a non-contact or wire-free manner.
- 5. The machine as claimed in either of claims 3 and 4, characterized in that the storage device (12) is suitable for receiving the operating power from the devices (20, 22) for reading data into and/or out of the storage device during their operation.
- 35 6. The machine as claimed in one of the claims 1 to 5, characterized in that there is a connection (32, 34) between a separate input (14) and a

transmitter/receiver (28) of the output and, if appropriate, the second input (30).

7. The machine as claimed in claim 2 or one of the claims following it and based on claim 2, characterized in that the type plate (10) within the machine is assigned a transmitter for data and operating power in a physical position permitting the transmission of said power to the storage device (12).

ABSTRACT

The invention relates to a type plate for machines which serves as a support for written and/or graphical information. The inventive type plate is provided with a storage device which is integrated therein and which is suited for inputting and outputting data.



SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that

name	e is listed below) or an one	ginal, first and joint inv d Machine Having a '	ventor (if plural names are listed	ge Device, which is described and claimed	in
soug		hed specification	type I tate Comprising a Stora	ge Device, which is described and claimed	
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	and as an	mended onN/A	(ıf applıcable)		
Code	ndment referred to above I acknowledge the d e of Federal Regulations, § I hereby claim forei	luty to disclose information 156	ation which is known to be mat	erial to the patentability of this application e, §119 of any foreign application certificate having a filing date before that of	in accordance with Title 3 tent or inventor's certificate
prior	rity is claimed. ior Foreign Application(s)				Priority Claimed
Γil					·
	199 29 766.5		Germany	29 June 1999	— ✓ Yes No
	(Number)		(Country)	(Day/Month/Year Filed)	
	PCT/EP00/05263		PCT	7 June 2000	— ✓ Yes □ No
<u> </u>	(Number)	·	(Country)	(Day/Month/Year Filed)	
					□ Yes □ No
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Title: Machine Having a Type Plate Comprising a Storage Device

Inventors: Peter JORDAN (Deceased), Frank MEYER-HESSING, Michael STEFFEN, Jean BORUN, and Jürgen RÖMING

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